A LANscape® **Solutions Product**

features and benefits |

Eight color-coded mechanical key positions	Prevents mismatch of networks
Meets TIA/EIA-568-B requirements	Optimum optical performance
Keyed connectors and adapters	Front and rear security in network panel
Full solution availability	Various network

Corning Cable Systems Keyed LC Connector Solution offers mechanical network security for organizations desiring to segregate networks due to privacy or security concerns. Utilizing the LC small-form-factor (SFF) format for optical fiber cabling, the keyed LC solution provides physical separation for up to eight networks, applications or organizations. Eight color-coded key combinations prevent inadvertent or unauthorized access to networks and provide fast and easy network identification. Keyed connectors on the front and back of the patch panel area are used to match access rights to the proper network. The keyed features cannot be duplicated with standard LC components, thereby preventing violation of network security. The SFF LC connector allows high-density deployment in less space than SC or ST® Compatible Connectors and supports up to 288 fibers in a 4U rack-mountable housing.

The keyed LC connector solution is available in singlemode (OS2), 62.5 µm multimode (OM1), standard 50 µm (OM2) and laser-optimized 50 µm multimode (OM3/OM4). Corning Cable Systems OM2 and OM3

(continued)





Keyed LC Connectors | Photo LAN1289





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jumpers have enhanced bend performance enabled by Corning® ClearCurve® multimode fiber. Ideal for research labs and secure government facilities, a full solution is available, ranging from factory-installed keyed LC connectors for assemblies and Plug & Play™ Universal Systems modules, to field-installable UniCam® Connectors and anaerobic keyed LC connectors, to adapters loaded into standard LANscape® Solutions panels and modules.

UniCam Connector

- No-epoxy/no-polish
- · No need for electrical power for ovens or lights
- · Quick installation: less than one minute per connector
- 100 percent factory tested for insertion loss (typical insertion loss is 0.1 dB for multimode and 0.2 dB for single-mode)
- Fast termination, high installation yields and no consumables means lower cost
- Factory-polished end face for consistent optical performance and factory-built jumper quality
- Continuity test set gives immediate go/no-go feedback of successful termination
- Utilizes standard UniCam Pretium® Tool Kit for installation so no additional materials required
- Reliable, proven technology with more than 50 million units sold since 1993

Anaerobic Connector

- Fast-cure anaerobic adhesive; does not require electrical power for lamps or ovens
- Hand polish; does not require polishing machine
- Reduced installation time; single-strike crimp solution ensures fewer than three minutes assembled and polished
- Average 0.2 dB insertion loss with physical contact polish

Cable Assemblies

- Complete line of single-fiber jumpers to high-fibercount assemblies available with keyed LC for all connector types
- State-of-the-art manufacturing process ensures consistent performance and tightly controlled end-face geometry
- · 100 percent factory tested

CCH Adapter Panels

- Universal approach is used; one panel size fits in all standard LANscape Solutions hardware (for example, CCH, PCH, CCS, WCH, ICH, EDC, FZB)
- Adapters are keyed on both sides to provide total network security

CCH Pigtail Modules

- Compatible with PCH and CCH LANscape Solutions rack-mountable housing
- Offers greater protection to optical cables and connectors
- Provided with factory-installed and factory-tested 3 m pigtails
- Available with MIC® Cable or ribbon pigtail types

Plug & Play Universal Systems Modules

- Factory-terminated solutions for improved system performance, component compatibility and consistent quality
- Universal and Classic wired modules enable fast and simple networking moves, adds and changes (MACs) without polarity concerns associated with special polarity-compensating components





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ordering information |

UniCam® Connectors

Select fiber type.

 $000 = 62.5 \mu m \text{ multimode (OM1)}$ $050 = 50 \,\mu\text{m}$ multimode (OM2) $05X = 50 \mu m laser-optimized$

multimode (OM3/OM4)

200 = Single-mode (OS2)

See Note 1.

2

Select keyed LC color.

N = BlueB = Black R = RedS = Slate Y = YellowE = Orange

G = Green V = Violet

Note:

1) Also available in Z-PAKs. Add "-Z" to end of part number. CONNECTORS | CABLE ASSEMBLIES | HARDWARE | SPLICE CLOSURES | TEST EQUIPMENT | SPLICE EQUIPMENT | TRAINING

Part Number Example

Part Number	Description
95-05X-KN	Keyed LC UniCam Connector, laser-optimized 50 μm, blue

Anaerobic-Cure Keyed LC Field-Installable Connectors

Select fiber type.

 $101 = 62.5 \mu m \text{ multimode (OM1)}$ $051 = 50 \mu m \text{ multimode (OM2)}$

201 = Single-mode (OS2)

Select keyed LC color. N = BlueB = Black

R = RedS = Slate Y = YellowE = Orange G = Green V = Violet

Part Number Example

Part Number	Description
95-101-98-SP-KN	Keyed LC Anaerobic-Cure Connector, 62.5 µm multimode (OM1), blue



PRETERMINATED SYSTEMS | CABLES |

ordering information | (continued)

Keyed LC Connector Assemblies

Corning Cable Systems patch cords and high-fiber-count assemblies are ordered using seven easy steps. The steps involve the selection of connector(s), cable and length. The format and steps are listed below.

Selection of connector(s), capit	z and ichgui	. 1110 1011110	at and otop	os are listed be	510W.	
1 2	3	4	5	 6	7	
 1	2			5		Notes: 1) Connector codes are based
Select connector codes (two digits per code). 00 = No connectors (use when ordering a pigtail)	01-96 See Note 2	oer count		Select keye LC connect N = Blue R = Red Y = Yellow	tor color. B = Black S = Slate E = Orange	on the type of adapter used at the patch panel and the electronic interface connector. The connector and adapter must be compatible for a correct connection. Always use the lowest code first when
Multimode 39 = SC simplex, ceramic 57 = SC duplex, ceramic 50 = ST® Compatible,	Select fil	• •	In (ON44)	G = Green	V = Violet	constructing the part number. 2) For fiber counts greater than
ceramic 03 = LC simplex 05 = LC duplex 97 = MT-RJ (non-pinned) 24 = Keyed LC simplex 26 = Keyed LC duplex	B = 50 μm T = 50 μm Q = 50 μm	im multimoden multimoden multimoden multimoden multimoden multimoden (OS	e (OM2) e (OM3) e (OM4)		embly length.	96, contact Customer Care.3) Ribbon interconnect cable option is only available for MT-RJ connector assembly combinations.
Single-mode 58 = SC UPC simplex 72 = SC UPC duplex	4			7		4) For additional cable options, contact Customer Care.
61 = ST Compatible UPC 02 = LC UPC simplex 04 = LC UPC duplex 98 = MT-RJ (non-pinned) 30 = Keyed LC UPC simplex 33 = Keyed LC UPC duplex See Note 1.	31Z = Sin rise 51Z = Zip 81Z = MIC Cal 91Z = DF J1Z = Rib rise 38Z = Sin pler 58Z = Zip 88Z = MIC Dis (2.0 98Z = DF J1Z	cord 2.0 mr controlle (2.0 mm controlle (2.0 mm controlle (2.0 mm cord (2.0 mm cord (2.0 mm cord (2.0 mm	m riser stribution n legs) er nnect m m plenum able	Select unit M = Meters F = Feet	of measure.	5) For lengths greater than 999, contact Customer Care.



plenum See Notes 3 and 4.

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ordering information | (continued)

Connector Panels

1

Select fiber count.

06 = 6 fibers (3 duplex adapters) 08 = 8 fibers (4 duplex adapters) 12 = 12 fibers (6 duplex adapters) 16 = 16 fibers (8 duplex adapters) 24 = 24 fibers (12 duplex adapters) 2

Select keyed LC duplex adapter style/color.

Keyed on both front and back of adapter

K1 = Blue KH = Orange K5 = Red KK = Black K9 = Yellow KL = Slate KD = Green KM = Violet

Keyed on front of adapter only, non-keyed on back

LA = Red LF = Black
LB = Green LG = Slate
LD = Yellow LH = Orange
LE = Blue LK = Violet

Part Number Example

Part Number	Description
CCH-CP12-K9	CCH Connector Panel with six keyed LC duplex adapters, yellow (keyed front and back)
CCH-CP12-LE	CCH Connector Panel with six keyed LC duplex adapters, blue (keyed front only)

Adapters

1

Select color of adapter.

G = Green E = Orange N = Blue V = Violet R = Red B = Black Y = Yellow S = Slate

2

Select keyed LC connector style.

S = Keyed to keyed X = Keyed to non-keyed

Part Number Example

Part Number	Description
ADP-KDLC-CCYRF-CLS	LC Duplex Adapter, yellow, keyed on both front and back of adapter



| SPLICE CLOSURES | TEST EQUIPMENT | SPLICE EQUIPMENT | TRAINING

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ordering information | (continued)

Pigtailed Modules and Panels

A standard pigtail length is 3 m (9.842 ft). For lengths other than 3 m, please contact Corning Cable Systems Customer Care at 800-743-2671.

CCH ·	-		□	0	3		
	1	2	3			 4	 5

3

Select module or panel. Select keyed LC duplex adapter style/color.

Keyed on both front and back of adapter RM = Module CP = Panel K1 = Blue KH = Orange KK = Black K5 = Red

> K9 = Yellow KL = Slate KD = Green KM = Violet

Keyed on front of adapter only, Select fiber count. non-keyed on back

06 = 6 fibers LA = Red LF = Black 08 = 8 fibersLB = Green LG = Slate 12 = 12 fibers 16 = 16 fibers

LD = Yellow LH = Orange LE = Blue LK = Violet

Select fiber type.

K = 62.5 µm multimode (OM1) $C = 50 \mu m \text{ multimode (OM2)}$ $S = 50 \mu m \text{ multimode (OM4)}$

R = Single-mode (OS2)

5

4

Select cable type.

H = MIC® Cable subunit (standard fiber cable option)

J = Ribbon fiber

Part Number Example

24 = 24 fibers

Part Number	Description
CCH-RM12-K1-P03KH	CCH 12-Fiber Pigtail Module with six keyed LC duplex blue adapters and a 3 m long MIC Cable subunit 62.5 µm pigtail, with 12 keyed LC duplex blue connectors





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ordering information | (continued)

CCH Pigtailed Splice Cassettes (for use in CCH housings only)

CCH - CS		□	0	0		
	1	2			3	4

1 2 3

Select fiber count. Select keyed LC duplex adapter style/color. 06 = 6 fibers Keyed on both front and back of adapter

 08 = 8 fibers
 K1 = Blue
 KH = Orange

 12 = 12 fibers
 K5 = Red
 KK = Black

 16 = 16 fibers
 K9 = Yellow
 KL = Slate

 24 = 24 fibers
 KD = Green
 KM = Violet

Keyed on front of adapter only, non-keyed on back

LA = Réd LF = Black LB = Green LG = Slate LD = Yellow LH = Orange LE = Blue LK = Violet Select fiber type.

K = 62.5 µm multimode (OM1) B = 50 µm multimode (OM2) T = 50 µm multimode (OM3) Q = 50 µm multimode (OM4) R = Single-mode (OS2)

4

Select splicing type.

E = Single-fiber splicing
J = Ribbon splicing
(only for fiber counts of
12 or 24)

Part Number Example

Part Number	Description
CCH-CS24-K1-P00TE	Closet Connector Housing Pigtail Cassette with 12 LC duplex adapters, blue, keyed front and back with 24 OM3 LC keyed blue connector pigtails routed inside the cassette for single-fiber splicing



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ordering information | (continued)

Plug & Play™ Systems Keyed LC Modules

CCH - \square	М					
 1		2	3	4	5	 6

1

Select module type. U = Universal R = Classic

2

See Note 1.

Select fiber count.

12 = 12 fibers 24 = 24 fibers 4

Select MTP® Connector.

70 = Multimode 89 = Single-mode

5

Select fiber type.

K = 62.5 μm multimode (OM1) T = 50 μm multimode (OM3) Q = 50 μm multimode (OM4) R = Single-mode (OS2) 6

Select keyed LC color.

BL = Blue RD = Red YL = Yellow GR = Green OR = Orange VL = Violet

VL = Violet BK = Black SL = Slate Note:

1) Default is Universal. Please note that Classic and Universal components are not compatible with each other.

3 Sel

Select connector code.

26 = Keyed LC multimode, duplex

33 = Keyed LC single-mode, duplex

Part Number Example

CCH-UM24-26-70T-YL

Part Number Description

24-Fiber, 50 μm Multimode Module with 12 yellow keyed LC duplex adapters

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